

# **CHAPTER 1 – GENERAL REQUIREMENTS**

## **1.1 INTRODUCTION**

The Carlsbad Municipal Water District (District) is a subsidiary district of the City of Carlsbad (City) with the responsibility of supplying potable and recycled water.

The City of Carlsbad is located along the northern coast of San Diego County, thirty miles north of downtown San Diego. It is bordered to the north by the City of Oceanside, to the south by the City of Encinitas, and the east by the cities of Vista and San Marcos. Carlsbad has a combination of industrial, commercial, and residential development, including a large regional shopping center, an auto-retail center, a large industrial park area, and a regional airport. The City contains three lagoons, extensive agricultural areas, and large tracts of undeveloped land. The total area of the City of Carlsbad is approximately 40 square miles. The north/south transportation corridors in the City are Carlsbad Boulevard, Interstate Highway 5, and El Camino Real.

The Potable and Recycled Water Standards pertain to the water service to lands and/or improvements lying within the City of Carlsbad unless otherwise stated.

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## **1.2 PROCURING WATER SERVICE**

### **1.2.1 Availability of Service**

The Developer (Applicant), or his agent, shall check with the Carlsbad Municipal Water District (District) to determine the current boundaries of the water district and availability of service.

Availability of service for potable and recycled water systems are subject to requirements such as offsite, onsite, relocations, replacements, extensions, sizing and special facilities which will be based on the District's approved Master Plans for the Potable and Recycled Water Systems.

### **1.2.2 Preliminary Feasibility Investigation**

In some instances, a feasibility report may be necessary to establish the means and methods of the District to service the proposed area. If required, a written agreement between the Developer and the District will be executed, whereby the estimated cost of the study made by the District is deposited with the District in advance.

### **1.2.3 Planchecking of Proposed Design**

The Developer/Engineer shall submit a site plan showing the proposed potable system layout in red pencil and must include G.P.M. demand for fire, domestic and irrigation (see Rules and Regulations for Use of Recycled Water). The Developer will be required to provide an initial fee deposit with the District for the District to run a hydraulic analysis, if needed, and set all the conditions for the development. After the District determines the requirements on the project, a minimum deposit amount will be set per the latest engineering fee schedule of the Carlsbad Municipal Water District, after which the preparation of mylar improvement plans can begin.

#### **1.2.4 Agreements, Bonding, and Engineering Service Charges**

The Developer's Engineer shall design the system as required by the District. The District will plancheck and approve the plans. Prior to signatures, the District will set a fee that will cover estimated expenditures of the District during this development. A credit will be given for the previous deposits received by the District. Bonds will be required for the cost of facilities at this time. Plans will then be approved and signed by the District after the completion of this process and the satisfaction of the City Engineer.

The Developer may be required to enter into agreements such as: Subdivision supplements, relocation, extension, replacement and reimbursement agreements. The conditions are as set forth in Ordinance No. 26, Article VI as adopted on May 15, 1968.

#### **1.2.5 Responsibility for Furnishing Materials and Installation**

Installation of a development's potable water facilities and any other required facilities will be the obligation of the Developer at his expense. The Developer shall cause all installation work to meet the District's "Standard Specifications for the Construction of Potable and Recycled Water Facilities"; and upon final acceptance, convey the facilities to the District.

#### **1.2.6 Guarantees**

The Developer shall be responsible for any and all repairs and replacements of the water facilities for a period of one year from the date of acceptance without expense whatsoever to the District. In the event of failure to comply with the aforementioned conditions, the District is authorized to proceed to have the defects repaired and made good at the expense of the Developer, who will have to pay the cost and charges, including attorney fees and other incidental costs involved thereof, immediately upon demand.

#### **1.2.7 Occupancy Requirements**

Upon successful completion of a cross connection test, the Developer may apply at the District for a temporary occupancy of a unit. The system must be completely installed, operational, tested, and accessible and to the District's satisfaction. After which, a City of Carlsbad Notice of "Final Building Inspection" will be processed through the City and the District. After its approval, occupancy may occur.

#### **1.2.8 Acceptance of System Procedures**

Upon total completion of the potable water system, the District will process and issue a "Letter of Acceptability" to the Developer. The units can be occupied thence forth. If the Developer has entered into a District Agreement, the District will also process an "Offer and Acceptance" notice. This requires City Engineer's approval. After its execution, a copy will be sent to the Developer.

Upon completion of the potable and recycled water system, the Developer shall furnish to District within fifteen days, a report of the actual cost of the water system, the "As Built" potable water improvement plan, a copy of the recorded easement tract or parcel map and the electronic file of the street, centerline and water system layout, or pay a fee to the Carlsbad Municipal Water District to have the maps entered into AUTOCAD Format on the Carlsbad Municipal Water District Atlas Sheets. The fee will be set by the Carlsbad Municipal Water District.

### **1.2.9 Severability**

If any section, subsection, sentence, clause or phrase contained herein is for any reason found to be invalid or unconstitutional, such decision shall not affect the remaining portions of these Potable and Recycled Water Standards. The Board of Directors declares that it would have approved these Potable and Recycled Water Standards by section, subsection, sentence, clause, or phrase irrespective of the fact that any one or more of the sections, subsection, sentence, clauses or phrases be declared invalid or unconstitutional.

## **1.3 WATER CONNECTION CHARGES, DEPOSITS, AND ENGINEERING FEES**

### **1.3.1 Fees, Charges, and Surcharges**

#### **A. Plan Check Deposits and Engineering Fees**

1. If required by District, a deposit shall be provided to run a hydraulic analysis to determine all District requirements.
2. Initial plan check deposit as established by the current City of Carlsbad fee schedule.
3. Final remaining balance of fee for District's engineering and processing as per District Resolution No. 439.
4. If required, a collection of reimbursement charges against property.

#### **B. Charges and Surcharges Collected by City of Carlsbad at Issuance of Building Permit**

1. Major facility charge.
2. San Diego County Water Authority surcharge for meter size.

### **1.3.2 Meter Installation Charge**

Developers of all residential or commercial/industrial properties shall be required to pay the charges pertinent to the purchase and installation of the water meters. Developer shall make application with the City of Carlsbad Finance Department ten (10) days prior to desired installation date. The Developer will submit a plan and/or description of the service location for the meter installation. The Carlsbad Municipal Water District Meter Department will install all potable and recycled meters (no exceptions). Meter and installation costs will be charged as per District CMWD Resolution No. 438, or as revised.

### **1.3.3 Inspection Charges**

The Developer shall pay to the City of Carlsbad, the inspection fees as established by the City Engineering Department.

## **1.4 DISTRICT'S REGULATION REGARDING BACKFLOW PREVENTION DEVICES**

The following provisions are to protect the potable water supplies against actual, undiscovered, unauthorized, or potential cross-connections to the user's recycled water system. These provisions are in addition to, not in lieu of, the controls and requirements of other regulatory agencies. These provisions are in accordance with Title 17 (Public Health) of the California Code of Regulations. These regulations are intended to protect the potable water supplies of the general public and are not intended to provide regulatory measures for protection of users from the hazards of cross-connections within their own property.

Approved backflow prevention assemblies on the potable and recycled water services to the property shall be provided, installed, tested, and maintained by the user at user expense. These assemblies shall be located on the property served immediately downstream of the meter and shall not be on District facilities. All devices used shall be readily accessible for testing and maintenance.

At their discretion, representatives of CMWD, City of Carlsbad, and any regulatory agency having jurisdiction may conduct surveys of property where water service is provided by the Carlsbad Municipal Water District. These surveys are to determine if any actual or potential cross-connections exist. The user shall provide full cooperation in facilitating these surveys. Where protection is required, backflow protection in accordance with Title 17 and approved by DOHS for potable water supplies shall be provided as follows:

- Each District water service connection that supplies potable water to a parcel having a recycled water supply shall be protected against backflow by a reduced pressure principle assembly (RP).

Water meters used for recycled water service shall be tagged or color-coded or otherwise distinguished as such in accordance with AWWA Guidelines (see Section 1.20). These meters shall not be interchanged or used for potable water service after repairs and/or meter testing have been performed.

District will inspect at least annually and test periodically each site using recycled water for compliance with all District, State, and County regulations regarding the use of recycled water onsite. The testing and/or inspections will include, but not be limited to, the following:

- Coverage test
- Cross-connection tests on all dual-sourced systems at least once every four years or more frequently if required by DEH/CMWD
- Review of recycled, potable, potable fire protection, and potable water used for irrigation systems
- Identification tags and labels
- Painted identification
- Covers, caps, signs
- Other items that indicate recycled water is being used
- Irrigation controller time schedule and controller charts
- Backflow protection
- All recycled and potable water-related appurtenances
- Site supervisor information is current